EQ / EQB

Gas-fired residential / light commercial water heater

EQ - 115/155/200/280/380
EQB - 115/155/200

Atmospheric water heater with thermal flue spillage protection and piezo ignition • Low noise level, suitable for installation in most locations • Ring base for easy installation and lower heat losses • Replaceable magnesium sacrificial anode • Safety thermostat • EQ 280/380 have access covers for waterside tank maintenance • EQB: maximum temperature setting of 81°C • Suitable for natural or LP gas • Optional ancillaries: Unvented kits • Destratification pump kit • Powered anode • Time clock kit • Flue fan kit • Solenoid valve kit

Innovation has a name.

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Technical specifications

		EQ 115	EQ 155	EQ 200	EQ 280	EQ 380	EQB 115	EQB 155	EQB 200
Gas data natural gas 2H (G20)									
Input*	kW	9.3	11.3	18.3	23.1	27.4	9.3	11.3	18.3
Output	kW	7.4	9.0	14.0	16.0	19.2	7.4	9.0	14.0
Inlet pressure	mbar	20	20	20	20	20	20	20	20
Burner pressure	mbar	12.5	12.5	10.5	11.5	10.0	12.5	12.5	10.5
Gas consumption**	m3/h	0.9	1.1	1.7	2.2	2.6	0.9	1.1	1.7
Diameter pilot orifice	mm	2 x 0.27	2 x 0.27	2 x 0.27	2 x 0.27	2 x 0.27	2 x 0.27	2 x 0.27	2 x 0.27
Diameter main orifice	mm	2.35	2.60	3.5	3.9	4.5	2.35	2.60	3.5
Max. flue gas temperature	°C	255	200	160	255	290	255	200	160
Gas data butane 3+ (G30)									
Input*	kW	10.1	12.2	17.6	21.8	29.6	10.1	12.2	17.6
Output	kW	8.2	9.9	13.7	15.5	21.2	8.2	9.9	13.7
Inlet pressure	mbar	30	30	30	30	30	30	30	30
Burner pressure	mbar	-	-	-	-	-	-	-	-
Gas consumption**	kg/h	0.7	0.9	1.3	1.6	2.2	0.7	0.9	1.3
Diameter pilot orifice	mm	0.22	0.22	0.22	2 x 0.16	2 x 0.16	0.22	0.22	0.22
Diameter main orifice	mm	1.40	1.50	1.95	2.20	2.50	1.40	1.60	1.95
Max. flue gas temperature	°C	255	200	160	255	290	255	200	160
Gas data propane 3+ (G31)									
Input*	kW	9.8	11.8	17.2	20.9	26.6	9.3	11.7	17.6
Output	kW	7.9	9.6	13.4	14.8	19.0	7.6	9.5	13.7
Inlet pressure	mbar	37	37	37	37	37	37	37	37
Burner pressure	mbar	-	-	-	-	-	-	-	-
Gas consumption**	kg/h	0.7	0.8	1.2	1.5	1.9	0.7	0.8	1.2
Diameter pilot orifice	mm	0.22	0.22	0.22	2 x 0.16	2 x 0.16	0.22	0.22	0.22
Diameter main orifice	mm	1.40	1.50	1.95	2.20	2.50	1.40	1.60	1.95
Max. flue gas temperature	°C	255	200	160	255	290	255	200	160
Draw-off capacity									
Storage capacity	l	109	144	181	265	355	109	144	181
Max. temperature setting	°C	71	71	71	71	71	81	81	81
30 min. ΔT=44°C	l	169	216	296	394	508	169	216	296
60 min. ΔT=44°C	l	241	304	433	550	695	241	304	433
90 min. ΔT=44°C	l	314	392	569	707	883	314	392	569
120 min. ΔT=44°C	l	386	480	706	864	1070	386	480	706
Continuous ΔT=44°C	l/h	144	175	273	313	375	144	175	273
Heating-up time ΔT=44°C	min.	45	49	40	51	57	45	49	40
30 min. ΔT=50°C	l	149	190	260	347	447	149	191	260
60 min. ΔT=50°C	l	212	268	381	484	612	212	268	381
90 min. ΔT=50°C	l	276	345	501	622	777	276	345	501
120 min. ΔT=50°C	l	339	422	621	760	942	339	422	621
Continuous ΔT=50°C	l/h	127	154	241	275	330	127	154	241
Heating-up time ΔT=50°C	min.	51	56	45	58	65	51	56	45
30 min. ΔT=55°C	l	135	173	237	315	406	135	173	237
60 min. ΔT=55°C	l	193	243	346	440	556	193	243	346
90 min. ΔT=55°C	l	251	313	455	565	706	251	313	455
120 min. ΔT=55°C	l	309	384	565	691	856	309	384	565
Continuous ΔT=55°C	l/h	116	140	219	250	300	116	140	219
Heating-up time ΔT=55°C	min.	57	62	50	63	71	57	62	50
General									
Anodes	-			1				1	
Maximum working pressure	bar			8				8	
Maximum weight	kg	156	196	256	382	499	156	196	256
Shipping data									
Weight empty	kg	47	52	75	117	144	47	52	75
Weight incl. packaging	kg	51	57	81	135	162	51	57	81
Width packaging	mm	530	580	570	780	780	530	580	570
Height packaging	mm	1140	1250	1580	1640	1830	1140	1250	1580
Depth packaging	mm	570	630	650	870	870	570	630	650

* Gas data on gross value

** Gas consumption at 15°C and 1013.25 mbar

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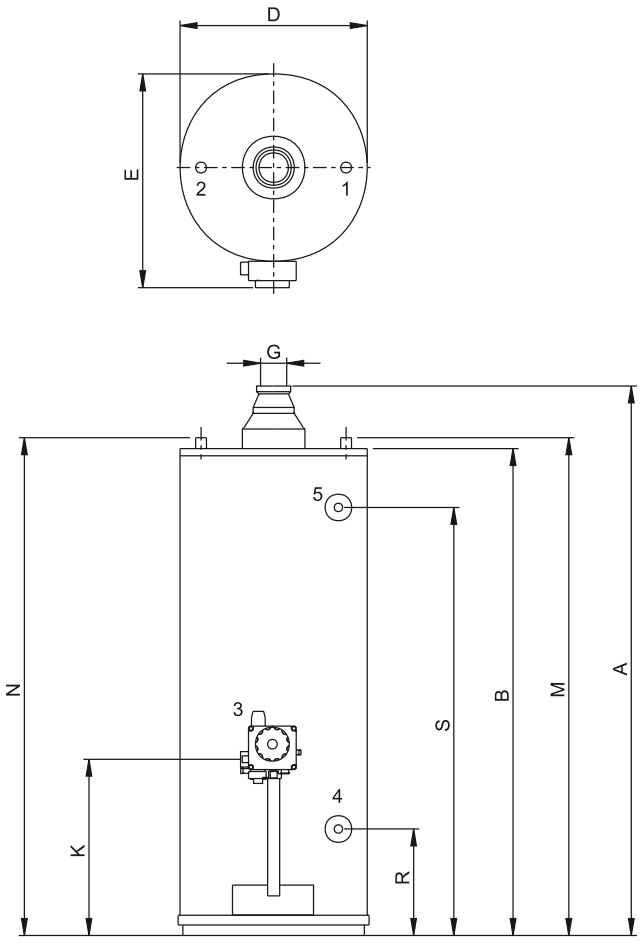
Dimensions

EQ / EQB



	EQ/EQB 115	EQ/EQB 155	EQ 200	EQB 200	EQ 280	EQ 380
A	1280	1370	1600	1670	1585	1780
B	1120	1210	1440	1540	1450	1640
D	465	515	515	515	645	675
E	545	595	595	605	735	765
G	80	80	100	100	130	130
K	325	325	325	380	375	375
M	1180	1270	1500	1590	1505	1685
N	1180	1270	1500	1590	1505	1685
R	230	230	230	255	285	285
S	945	1030	1265	1380	1280	1460

1	Cold water	3/4 - 14 NPT (EQ 280: 1 -11.5 NPT) (EQ 380: 1 1/4 - 11.5 NPT)
2	Hot water	3/4 - 14 NPT (EQ 280: 1-11.5 NPT) (EQ 380: 1 1/4 -11.5 NPT)
3	Gas control	Rp 1/2
4	Tank drain valve	3/4 - 14 NPT
5	T&P valve	3/4 - 14 NPT

Dimensions in mm. All EQ water heaters receive a five years warranty on the tank and one year on parts. All EQB water heaters have a one year warranty period.

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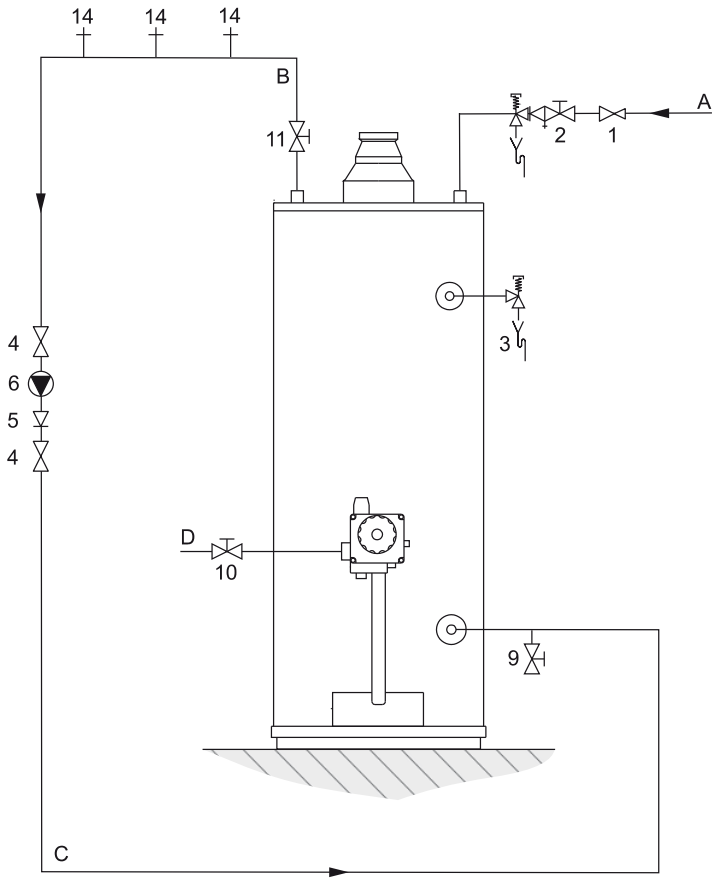
Installation diagrams

EQ / EQB



1 Pressure reducing valve
3 T&P valve
4 Stop valve
5 Non-return valve
6 Circulation pump
9 Drain valve
10 Gas cock
11 Isolating valve
14 Hot water outlets
15 Expansion relief valve
16 Expansion vessel
17 Three way valve
18 Water tank
19 Float valve

A Cold water
B Hot water
C Return circulation
D Gas supply
E Overflow pipe
H Expansion vent pipe

A.O. Smith unvented system kits utilise combination valves.

An EQ / EQB water heater should be installed in accordance with local standards and ventilation requirements (category B11BS).

Further installation and connection details can be found in the Installation & Commissioning Manual.

For the parts numbers of components please refer to the “Maintenance and accessories” tab.

Data subject to change INT/0808/EQ/02
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